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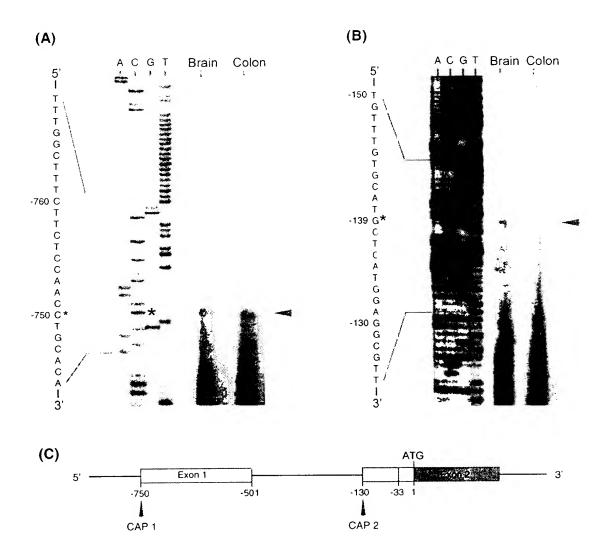


Figure 3

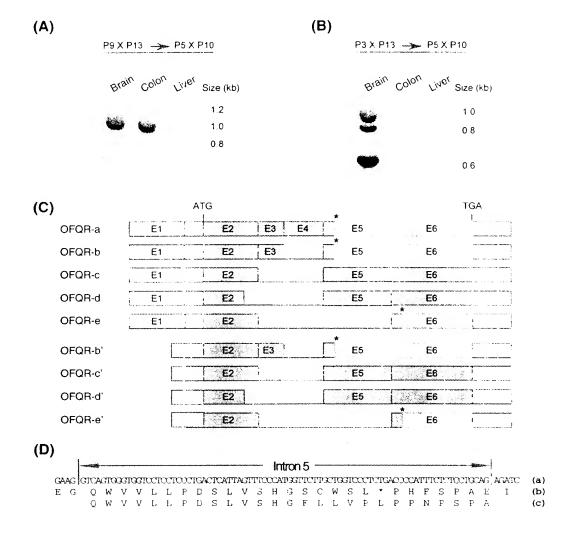


Figure 4

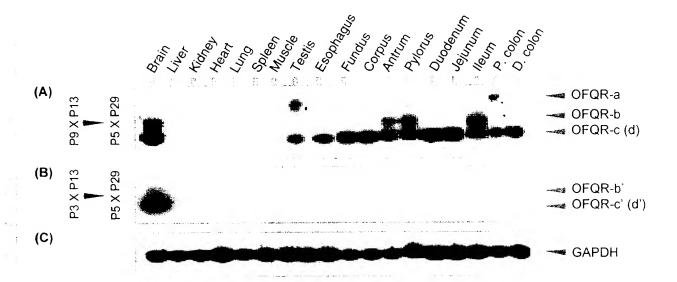


Figure 5

Figure 6 SEQ ID NO:9

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Figure 6 (cont.)

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Figure 6 (cont.)

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Figure 7 SEQ ID NO:10

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481		atgtatgtca				
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601		agagaagtct				
661		acaaactcac				
721		tggcactggc				
781		tgggcttctg				
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Figure 8 SEQ ID NO:11

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Figure 9 SEQ ID NO:12

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Figure 10 SEQ ID NO:13

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Figure 11 SEQ ID NO:14

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1201	tgtcaacagt	tgtctcaatc	ccattctcta	tgctttcctg	gatgagaact	tcaaggcctg
1261	ctttagaaag	ttctgctgtg	cttcatccct	gcaccgggag	atgcaggttt	ctgatcgtgt
1321	gcggagcatt	gccaaggatg	ttggccttgg	ttgcaagact	tctgagacag	taccacggcc
1381	agcatga					

Figure 12 SEQ ID NO:15

MESLFPAPYWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCIGGLLGNCLVMY VILRHTKMKTATNIYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMS VDRYVAICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAPQDYWGPVFA ICIFLFSFIIPVLIISVCYSLMIRRLRGVRLLSGSREKDRNLRRITRLVLVVVAVFVGCWTPVQVFVLVQG LGVQPGSETAVAILRFCTALGYVNSCLNPILYAFLDENFKACFRKFCCASSLHREMQVSDRVRSIAKDVGL GCKTSETVPRPA

Figure 13 SEQ ID NO:16

1	ctgcacagcc	cctccttctc	tcagccgcag	ccttctqccc	ctcccccttc	tggctgccgc
61	accaactact	gcgtctagtc	aatatcttat	cttccqaqca	ggagctagga	gccattccca
121		accccaatct				
181		tgctaagcat				
241		gaactgtact				
301		tgggaggtct				
361		ccccaccacc				
421	actcaaggtc	accatcgtgg	ggctctactt	ggctgtgtgc	atcggggggc	tcctggggaa
481	ctgcctcgtc	atgcacacca	agatgaagac	agctaccaac	atttacatat	ttaatctggc
541		accctggtct				
601	cttctggcca	tttgggaatg	cactctgcaa	gactgtcatt	gctatcgact	actacaacat
661		acttttactc				
721	ccctatccgt	gcccttgatg	ttcggacatc	cagcaaagcc	caggctgtta	atgtggccat
781		gcttcagtgg				
841	agatgaagag	atcgagtgcc	tggtggagat	ccctgcccct	caggactatt	ggggccctgt
901	attcgccatc	tgcatcttcc	ttttttcctt	catcatccct	gtgctgatca	tctctgtctg
961	ctacagcctc	atgattcgac	gacttcgtgg	tgtccgtctg	ctttcaggct	cccgggagaa
1021	ggaccgaaac	ctgcggcgta	tcactcgact	ggtgctggta	gtggtggctg	tgtttgtggg
1081	ctgctggacg	cctgtgcagg	tgtttgtcct	ggttcaagga	ctgggtgttc	agccaggtag
1141	tgagactgca	gttgccatcc	tgcgcttctg	cacagccctg	ggctatgtca	acagttgtct
1201	caatcccatt	ctctatgctt	tcctggatga	gaacttcaag	gcctgcttta	gaaagttctg
1261	ctgtgcttca	tccctgcacc	gggagatgca	ggtttctgat	cgtgtgcgga	gcattgccaa
1321	ggatgttggc	cttggttgca	agacttctga	gacagtacca	cggccagcat	ga

Figure 14 SEQ ID NO:17

MESLFPAPYWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCIGGLLGNCLVMH TKMKTATNIYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMSVDRYV AICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAPQDYWGPVFAICIFL FSFIIPVLIISVCYSLMIRRLRGVRLLSGSREKDRNLRRITRLVLVVVAVFVGCWTPVQVFVLVQGLGVQP GSETAVAILRFCTALGYVNSCLNPILYAFLDENFKACFRKFCCASSLHREMQVSDRVRSIAKDVGLGCKTS ETVPRPA

Figure 15 SEQ ID NO:18

1	gctcatggag	gcgttcatgt	gcctgttagt	gtagttgtgc	tgtgttctaa	ggcctcagtg
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121	ggctttgcag	ggtgacagca	tggagtccct	ctttcctgct	ccatactggg	aggtcttgta
181	tggcagccac	tttcaaggga	acctgtccct	cctaaatgag	accgtacccc	accacctgct
241	cctcaatgct	agtcacagcg	ccttcctgcc	ccttggactc	aaggtcacca	tcgtggggct
301	ctacttggct	gtgtgcatcg	gggggctcct	ggggaactgc	ctcgtcatgt	atgtcatcct
361	cagctgggag	ggcattgagg	gggactggag	acagcaggca	caccaagatg	aagacagcta
421	ccaacattta	catatttaa				

Figure 16 SEQ ID NO:19

1	gctcatggag	gcgttcatgt	gcctgttagt	gtagttgtgc	tgtgttctaa	ggcctcagtg
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121	ggctttgcag	ggtgacagca	tggagtccct	ctttcctgct	ccatactggg	aggtcttgta
181	tggcagccac	tttcaaggga	acctgtccct	cctaaatgag	accgtacccc	accacctgct
241	cctcaatgct	agtcacagcg	ccttcctgcc	ccttggactc	aaggtcacca	tcgtggggct
301	ctacttggct	gtgtgcatcg	gggggctcct	ggggaactgc	ctcgtcatgt	atgtcatcct
361	caggcacacc	aagatgaaga	cagctaccaa	catttacata	tttaatctgg	cactggctga
421	taccctggtc	ttgctaacac	tgcccttcca	gggcacagac	atcctactgg	gcttctggcc
481	atttgggaat	gcactctgca	agactgtcat	tgctatcgac	tactacaaca	tgtttaccag
541	cacttttact	ctgaccgcca	tgagcgtaga	ccgctatgtg	gctatctgcc	accctatccg
601	tgcccttgat	gttcggacat	ccagcaaagc	ccaggctgtt	aatgtggcca	tatgggccct
661	ggcttcagtg	gttggtgttc	ctgttgccat	catgggttca	gcacaagtgg	aagatgaaga
721	gatcgagtgc	ctggtggaga	tccctgcccc	tcaggactat	tggggccctg	tattcgccat
781	ctgcatcttc	cttttttcct	tcatcatccc	tgtgctgatc	atctctgtct	gctacagcct
841	catgattcga	cgacttcgtg	gtgtccgtct	gctttcaggc	tcccgggaga	aggaccgaaa
901	cctgcggcgt	atcactcgac	tggtgctggt	agtggtggct	gtgtttgtgg	gctgctggac
961	gcctgtgcag	gtgtttgtcc	tggttcaagg	actgggtgtt	cagccaggta	gtgagactgc
1021	agttgccatc	ctgcgcttct	gcacagccct	gggctatgtc	aacagttgtc	tcaatcccat
1081	tctctatgct	ttcctggatg	agaacttcaa	ggcctgcttt	agaaagttct	gctgtgcttc
1141	atccctgcac	cgggagatgc	aggtttctga	tcgtgtgcgg	agcattgcca	aggatgttgg
1201	ccttggttgc	aagacttctg	agacagtacc	acggccagca	tga	

Figure 17 SEQ ID NO:20

1	gctcatggag	gcgttcatgt	gcctgttagt	gtagttgtgc	tgtgttctaa	ggcctcagtg
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121	ggctttgcag	ggtgacagca	tggagtccct	ctttcctgct	ccatactggg	aggtcttgta
181	tggcagccac	tttcaaggga	acctgtccct	cctaaatgag	accgtacccc	accacctgct
241	cctcaatgct	agtcacagcg	ccttcctgcc	ccttggactc	aaggtcacca	tcgtggggct
301	ctacttggct	gtgtgcatcg	gggggctcct	ggggaactgc	ctcgtcatgc	acaccaagat
361	gaagacagct	accaacattt	acatatttaa	tctggcactg	gctgataccc	tggtcttgct
421	aacactgccc	ttccagggca	cagacatcct	actgggcttc	tggccatttg	ggaatgcact
481	ctgcaagact	gtcattgcta	tcgactacta	caacatgttt	accagcactt	ttactctgac
541	cgccatgagc	gtagaccgct	atgtggctat	ctgccaccct	atccgtgccc	ttgatgttcg
601	gacatccagc	aaagcccagg	ctgttaatgt	ggccatatgg	gccctggctt	cagtggttgg
661	tgttcctgtt	gccatcatgg	gttcagcaca	agtggaagat	gaagagatcg	agtgcctggt
721	ggagatccct	gcccctcagg	actattgggg	ccctgtattc	gccatctgca	tcttcctttt
781	ttccttcatc	atccctgtgc	tgatcatctc	tgtctgctac	agcctcatga	ttcgacgact
841	tcgtggtgtc	cgtctgcttt	caggctcccg	ggagaaggac	cgaaacctgc	ggcgtatcac
901	tcgactggtg	ctggtagtgg	tggctgtgtt	tgtgggctgc	tggacgcctg	tgcaggtgtt
961	tgtcctggtt	caaggactgg	gtgttcagcc	aggtagtgag	actgcagttg	ccatcctgcg
1021	cttctgcaca	gccctgggct	atgtcaacag	ttgtctcaat	cccattctct	atgctttcct
1081	ggatgagaac	ttcaaggcct	gctttagaaa	gttctgctgt	gcttcatccc	tgcaccggga
1141	gatgcaggtt	tctgatcgtg	tgcggagcat	tgccaaggat	gttggccttg	gttgcaagac
1201	ttctgagaca	gtaccacggc	cagcatga			

Figure 18 SEQ ID NO:21

1	gctcatggag	gcgttcatgt	g:ctgttagt	gtagttgtgc	tgtgttctaa	ggcctcagtg
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121	ggctttgcag	ggtgacagca	tggagtccct	ctttcctgct	ccatactggg	aggtcttgta
181	tggcagccac	tttcaaggga	acctgtccct	cctaaatgag	accgtacccc	accacctgct
241	cctcaatgct	agtcacagcg	cettectgee	ccttggactc	aaggtcacca	tcgtggggct
301	ctacttggct	gtgtgcatcg	gggggctcct	ggggaactgc	ctcgtcatgt	atgtcatcct
361	cagagatcga	gtgcctggtg	gagatccctg	cccctcagga	ctattggggc	cctgtattcg
421	ccatctgcat	cttccttttt	tccttcatca	tecetgtget	gatcatctct	gtctgctaca
481	gcctcatgat	tcgacgactt	cgtggtgtcc	gtctgctttc	aggctcccgg	gagaaggacc
541	gaaacctgcg	gcgtatcact	cgactggtgc	tggtagtggt	ggctgtgttt	gtgggctgct
601	ggacgcctgt	gcaggtgttt	gtcctggttc	aaggactggg	tgttcagcca	ggtagtgaga
661	ctgcagttgc	catcctgcgc	ttctgcacag	ccctgggcta	tgtcaacagt	tgtctcaatc
721	ccattctcta	tgctttcctg	gatgagaact	tcaaggcctg	ctttagaaag	ttctgctgtg
781	cttcatccct	gcaccgggag	atgcaggttt	ctgatcgtgt	gcggagcatt	gccaaggatg
841	ttggccttgg	ttgcaagact	tctgagacag	taccacggcc	agcatga	

Figure 19 SEQ ID NO:22

1	aataatataa	acatataata	anataaaaa	aaaataaaa	aaaaaatata	and and and a
1		acctgtcgtc				
61 121		aggaggttgc				
121 181		teceegegee				
		tgagccccaa				
241		tcctgcccct				
301		ggctcctggg				
351		ccaccaatat				
421		ccttccaggg				
481		cagtcattgc				
541		gtgtggatcg				
601		gcaaagccca				
661		ttgccatcat				
721		ctacccctca				
781		tcgtccccgt				
841		tccgcctgct				
901		tgctggtggt				
961		cccaagggct				
1021		cggccctggg				
1081		acttcaaggc				
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1201	acctctgaga	cggtaccgcg	gcccgcatga	ctaggcgtgg	acctgcccat	ggtgcctgtc
1261	agcccgcaga	gcccatctac	gcccaacaca	gagctcacac	aggtcactgc	tctctaggcg
1321	gacacaccct	gggccctgag	catccagage	ctgggatggg	cttttccctg	tgggccaggg
1381	atgctcggtc	ccagaggagg	acctagtgac	atcatgggac	aggtcaaagc	attagggcca
1441	cctccatggc	cccagacaga	ctaaagctgc	cctcctggtg	cagggccgag	gggacacaag
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1561	cctccccgtg	cttcatgtga	ctcttggcct	ctctgctgct	gcgttggcag	aaccctgggt
1621		ccggaggagg				
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1741		ggcacggccc				
1801		ggagctgcca				
1861	gggccacccc	aggagaaagt	gtccaggtgg	gggctggcag	tccctggctg	cagaccccga
1921		ggaccgcacc				
1981		gcttgactct				
2041		ccctccagcg				
2101		gtggggcagg				
2161		agtggaggcc				
2221		gggtccccac				
2281	agccagaggt	cagtggccgt	gctgtgttqc	ggggaagctq	tgtggaagga	gaagctggtg
2341	gccacagcag	agtcctgctc	tggggacgcc	tgcttcattt	acaagcctca	agatggctct
2401		tgagcttgct				
2461		tggcagggct				
2521	cactgcgggg			~		2 2 3 33 .

Figure 20 SEQ ID NO:23

 $\label{thm:linashsaflplglkvtivglylavciggllgn} MESLFPAPYWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCIGGLLGN\\ CLVMYVILRDRVPGGDPCPSGLLGPCIRHLHLPFFLHHPCADHLCLLQPHDSTTSWCPSAFRLPGE\\ GPKPAAYHSTGAGSGGCVCGLLDACAGVCPGSRTGCSAR$